

Guam EPA
Title V Federal Operating Permit
Guam Power Authority – Macheche
Permit No. FO-004
Expires: **Insert Date**

**GUAM ENVIRONMENTAL PROTECTION AGENCY
AIR AND LAND DIVISION
AIR POLLUTION CONTROL PROGRAM
P.O. Box 22439 GMF
Barrigada, Guam 96921**

TITLE V PERMIT TO OPERATE

Permit Number: FO-004
Issue Date: **DRAFT**
Expiration Date: **DRAFT**

In accordance with the provisions of Title V of the Clean Air Act (CAA) and the Guam Air Pollution Control Standards and Regulations (GAPCSR), Public Law 24-20, 10 Guam Code Annotated (GCA), Chapter 49,

**Guam Power Authority
Macheche Combustion Turbine Power Generating Facility
Dededo, Guam**

is authorized to operate air emission units and to conduct other air pollutant emitting activities in accordance with the permit conditions listed in this permit. Terms and conditions not otherwise defined in this permit have the meaning assigned to them in the referenced regulations. All terms and conditions of the permit are enforceable by the United States Environmental Protection Agency (USEPA) and citizens under the CAA. The issuance of this permit is based on the plans, specifications, and additional information submitted as part of the application dated August 22, 2003.

If all proposed control measures and/or equipment are not installed and properly operated and maintained, this will be considered a violation of the permit.

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Acceptance of this permit constitutes an agreement and acknowledgement that the holder will comply with all the rules and regulations of the Guam Environmental Protection Agency (GEPA) and these permit conditions.

This permit, (a) does not in any manner affect the title of the premises upon which the equipment is located, (b) does not release the permittee from any liability for any loss due to personal injury or property damage caused by, resulting from or arising out of the design, installation, maintenance, or operation of the equipment, and (c) in no manner implies or suggests that GEPA, or its officers, agents, or employees assumes any liability, directly or indirectly, for any loss due to personal injury or property damage caused by, resulting from or arising out of the design, installation, maintenance, or operation of the equipment.

This permit is valid for a period of five (5) years and shall expire at midnight on the date specified above unless a timely and complete renewal application has been submitted at least 6 months but not more than 18 months prior to the date of expiration. The permit number cited above should be referenced in future correspondence regarding this facility.

Date

Lorilee T. Crisostomo
Administrator
Guam EPA

Guam EPA

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Abbreviations and Acronyms

ASTM	American Society for Testing and Materials
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAM	Compliance Assurance Monitoring
CFR	Code of Federal Regulations
CO	Carbon Monoxide
°F	degrees Fahrenheit
g	grams
GAPCSR	Guam Air Pollution Control Standards and Regulations
GCA	Guam Code Annotated
GEPA	Guam Environmental Protection Agency
H ₂ O	water
hr	hour
HRSG	Heat Recovery Steam Generator
ISO	International Organization for Standardization
K	degrees Kelvin
kW	kilowatt
lb	pound
mm Hg	millimeters mercury
MMBtu	Million British thermal units
MW	Megawatt
NAAQS	National Ambient Air Quality Standard
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standards
O ₂	Oxygen
PM ₁₀	Particulate matter less than 10 microns in diameter
ppmdv	parts per million dry volume
PSD	Prevention of Significant Deterioration
QIP	Quality Improvement Plan
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO ₂	Sulfur Dioxide
UHC	Unburned Hydrocarbons
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds

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Permit No. FO-004
Expires: **Insert Date**

I. Source Identification

Facility Name:	Guam Power Authority – Macheche Power Generating Facility
Facility Location:	Harmon Loop Road (Route 27)
City:	Dededo
Territory:	Guam
USEPA Region:	9
SIC Code:	4911

Responsible Official:	Joaquin C. Flores, P.E.
Phone Number:	(671) 648-3202

Facility Manager/Contact:	Andriano E. Balajadia
Phone Number:	(671) 648-3204

Person Responsible for Recordkeeping:	Sylvia L. Ipanag
Phone Number:	(671) 648-3217

Description of Process:

Guam Power Authority Macheche facility is a combustion turbine power generating plant. The operation of this facility is to help with load shedding on the island during outages of other power generating facilities. Sources that have the potential to cause significant emissions of air pollutants are the 23 megawatt (MW) combustion turbine, a 575 kilowatt (kW) black start generator, and two 88,000 gallons diesel fuel oil storage tanks. Other insignificant emission sources include two 24,000 gallon fuel oil storage tanks and a black start diesel generator service tank.

II. Facility-wide and Unit Specific Permit Conditions

II.A. Equipment Description

II.A.1 This permit encompasses the following equipment and associated appurtenances that are considered significant sources of emissions. [GAPCSR, Section 1104.12(12)]

Emission Unit ID	Description	Manufacturer	Model	Serial Number
CT-1	Nominal 23 MW simple cycle combustion turbine	General Electric	LM2500	05620 N.P.
FOST-110	88,000 gallon diesel fuel oil storage tank			
FOST-120	88,000 gallon diesel fuel oil storage tank			
BSG-1	575 kW black start diesel generator	Detroit Diesel	81237405	ITRXE005942

II.A.2 The permittee shall have installed an identification tag or nameplate on each piece of equipment that identifies the model number, serial number, and manufacturer. The identification tag or nameplate shall be permanently attached to the equipment at a conspicuous location. [Section 49107(7)(B) of Chapter 49, Part 2, Division 2, Part 1 of Title 10 of the GCA]

II.B. Emission Limits

II.B.1 Fuel Burning Equipment (Units CT-1 and BSG-1)

II.B.1.a For fuel burning equipment with a heat input greater than one (1) million British thermal units per hour (MMBtu/hr) but less than 1,000 MMBtu/hr, the allowable particulate emissions shall be calculated using the following equation [State Implementation Plan (SIP), Section 7.5]:

$$Y = 1.02 X^{-0.231}$$

Where: Y = Allowable particulate emission rate (lb/MMBtu)
X = Operating rate (MMBtu/hr)

II.B.1.b The permittee shall not cause or permit the continuous emission of visible air pollutants with a density equal to or darker than twenty (20) percent opacity from any emission unit nor the emission of visible air pollutants of a density darker than sixty (60) percent opacity for a period aggregating more than three (3) minutes in any sixty (60) minute period. [GAPCSR, Section 1103.3; SIP, Section 10.1]

II.B.2 Combustion Turbine (Unit CT-1)

II.B.2.a The permittee shall not discharge or cause the discharge into the atmosphere from the combustion turbine (Unit CT-1) the following pollutants in excess of the specified short-term limits, referenced to 59 degrees Fahrenheit (°F) and 100 percent load:

Pollutant	Emission Limit
Particulate matter less than 10 microns (PM ₁₀)	20 pounds per hour (lb/hr) at 100% load
Carbon monoxide (CO)	21.8 lb/hr at 100% load
Nitrogen oxides (NO _x)	55.8 lb/hr at 100% load
Unburned hydrocarbons (UHC)	4.0 lb/hr at 50% load
Sulfur dioxide (SO ₂)	125.0 lb/hr at 100% load

[GEPA Permit GPA-680, Condition 7, Issued September 10, 1997]

II.B.2.b The NO_x emissions from the combustion turbine (Unit CT-1) shall not exceed 59 parts per million dry volume (ppmdv) at 15 percent oxygen for No. 2 fuel oil. [GEPA Permit GPA-680, Condition 4, Issued September 10, 1997; 40 CFR 60.332(a)(1)]

II.B.2.c The combustion turbine (Unit CT-1) is exempt from Condition II.B.2.b of this permit when ice fog is deemed a traffic hazard by the permittee. [40 CFR 60.332(f)]

II.C. Work Practice and Operational Requirements

II.C.1 All equipment, facilities, and systems installed or used to achieve compliance with terms and conditions of this permit shall at all times, including periods of startup, shutdown and malfunction, be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. The permittee shall conduct proper preventative maintenance procedures for the combustion turbine, the black start diesel generator, and the fuel oil storage tank in accordance with the manufacturer's recommendations. [GAPCSR, Section 1104.12(12)]

- II.C.2 Adequate control measures approved by GEPA shall be implemented to prevent exceedences of any applicable air quality standards during the operation of the facility. [GEPA Permit GPA-680, Condition 2, Issued September 10, 1997; GAPCSR, Section 1104.12(8)]
- II.C.3 Water injection shall be used to control NO_x emissions from the combustion turbine (Unit CT-1). Based on initial performance testing, the water-to-fuel shall be at least 0.73 at 30% load and at least 0.82 at 100% load. The minimum water-to-fuel ratio for loads between 30% and 100% shall be adjusted accordingly, but in no case shall the water-to-fuel ratio be less than 0.73. The water injection system shall be in service and operating at the specified water-to-fuel ratios whenever the combustion turbine is in operation. [GEPA Permit GPA-680, Condition 5, September 10, 1997]
- II.C.4 The amount of No. 2 diesel fuel oil burned by the combustion turbine (Unit CT-1) shall not exceed 7,140,000 gallons per year. This equates to 4,280 full load hours of operation per year at 85°F for the combustion turbine. [GEPA Permit GPA-680, Condition 8, September 10, 1997]
- II.C.5 The maximum sulfur content by weight of the No. 2 fuel oil used by the combustion turbine (Unit CT-1) shall not exceed 0.5 percent. The fuel analysis data shall be recorded and submitted to GEPA with the monthly report. [GEPA Permit GPA-680, Condition 10, September 10, 1997; 40 CFR 60.333(b); GAPCSR, Section 1103.10]
- II.C.6 The maximum sulfur content by weight of the No. 2 fuel oil used by the black start diesel generator (Unit BSG-1) shall not exceed 2 percent. [GAPCSR, Section 1103.10]
- II.C.7 At all times, including periods of startup, shutdown, and malfunction of the combustion turbine (Unit CT-1), the permittee shall, to the extent practicable, maintain and operate the combustion turbine and water injection system in a manner consistent with good air pollution control proactive for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to GEPA. This may include, but is not limited to, monitoring results, review of operating and maintenance procedures, and inspection of the source. [GEPA Permit GPA-680, Condition 12, September 10, 1997]

- II.C.8 Any modification to the combustion turbine (Unit CT-1) that increases this source's potential to emit pollutants above the applicable Prevention of Significant Deterioration (PSD) threshold level will require a full PSD review (as per 40 CFR 52.21(r)(4)). This condition applies to all criteria pollutants including the PM₁₀. [GEPA Permit GPA-680, Condition 17, September 10, 1997]
- II.C.9 Proper preventive maintenance procedures for the combustion turbine (Unit CT-1) shall be followed in accordance with the manufacturer's recommendations. [GEPA Permit GPA-680, Condition 19, September 10, 1997]
- II.C.10 The permittee shall not cause or permit visible fugitive dust to become airborne without taking reasonable precautions. Examples of reasonable precautions are [GAPCSR, Section 1103.4(a); SIP, Sections 8.1, 8.4, and 8.7]:
- II.C.10.a Use of water or suitable chemicals for control of fugitive dust in the demolition of existing buildings or structures, construction and retrofitting operations, the grading of roads, or the clearing of land;
 - II.C.10.b Application of asphalt, water, or suitable chemicals on roads, material stockpiles, and other surfaces which may allow release of fugitive dust;
 - II.C.10.c Installation of appurtenances that provide an enclosure and ventilation for all crushing, aggregate screening, and conveying of material likely to become airborne;
 - II.C.10.d Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials. Reasonable containment methods shall be employed during sandblasting, spray painting, or other similar operations;
 - II.C.10.e Covering all moving, open-bodied trucks transporting materials which may release fugitive dust;
 - II.C.10.f Conducting agricultural operations, such as tilling of land and the application of fertilizers, in such manner as to reasonably minimize fugitive dust;
 - II.C.10.g Maintenance and sealing of road-ways and parking lots so as to prevent the exposure of such surfaces to wind, water, or vehicular travel erosion; and
 - II.C.10.h Prompt removal of earth or other materials from paved streets which have been transported there by trucking, earth-moving equipment, erosion, or other means.

II.C.11 Except for persons engaged in agricultural operations or persons who can demonstrate to the Administrator that the best practical operation or treatment is being implemented, no person shall cause or permit the discharge of visible fugitive dust beyond the property lot line on which the fugitive dust originates. [GAPCSR, Section 1103.4(b); SIP, Section 8.2]

II.D. Monitoring and Testing Requirements

II.D.1 The permittee shall provide sampling and testing facilities at its own expense. The tests shall be conducted at the maximum expected operating capacity of the equipment at this facility and GEPA may monitor the tests. For performance test purposes, sampling ports, platforms and access shall be provided by the permittee on the diesel exhaust systems in accordance with 40 CFR 60.8(e). [GAPCSR, Section 1102.4; SIP, Sections 3.6(a), 3.9, and 4.1]

II.D.2 At least thirty (30) days prior to performance a test, the permittee shall submit a written performance test plan to GEPA that describes the test date(s), duration, locations, and methods, source operation and other parameters that may affect test results. Such a plan shall conform to USEPA guidelines including quality assurance procedures. A test plan or quality assurance plan that does not have the approval of GEPA shall be grounds to invalidate any test and require a retest. [GAPCSR, Section 1102.4]

II.D.3 Within sixty (60) days after completion of the performance test, the permittee shall submit to GEPA and USEPA Regional Administrator, the test report which shall include the operating conditions of the equipment at the time of the test, the analyses of the fuel, the summarized test results, comparative results with the permit emissions limits, and other pertinent field and laboratory data. [GAPCSR, Section 1102.4; SIP, Section 4.2]

II.D.4 Performance tests for the emissions of PM₁₀, NO_x, SO₂, CO, and volatile organic compounds (VOC) from the combustion turbine (Unit CT-1) shall be conducted on an annual basis in accordance with the test methods set forth in 40 CFR 60.8 and Appendix A, and the results shall be reported to GEPA. The NO_x emissions shall be determined at each of the load conditions specified in Condition II.D.12 of this permit. The following test methods shall be used:

II.D.4.a Performance test for the emissions of PM₁₀ shall be conducted using USEPA Methods 1-4 and 5.

II.D.4.b Performance test for the emissions of NO_x shall be conducted using USEPA Methods 1-4 and 20.

II.D.4.c Performance test for the emissions of SO₂ shall be conducted using USEPA Methods 1-4 and 20.

II.D.4.d Performance test for the emissions of CO shall be conducted using USEPA Methods 1-4 and 10 or 10B.

II.D.4.e Performance test for the emissions VOCs shall be conducted using USEPA Methods 1-4 and 25A.

Upon prior written request and with adequate justification from the permittee, GEPA may waive a specific annual performance test. Such requests must be submitted so later than 60 days prior to the annual performance test date.

[GEPA Permit GPA-680, Conditions 15 and 16, September 10, 1997; 40 CFR 60.335(a)(1); 40 CFR 60.335(b); GAPCSR, Section 1102.4]

II.D.5 Any deviations from these conditions, test methods, or procedures may be cause for rejections of the test results unless such deviations are approved by GEPA before the tests are conducted. [GAPCSR, Section 1102.4]

II.D.6 Upon written request and adequate justification by the permittee, GEPA may waive the requirement for a specific annual source test. The waiver request must be submitted at least sixty (60) days prior to the required test and must include documentation justifying such action. Documentation should include, but is not limited to, the results of the prior test indicating compliance by a wide margin, documentation of continuing compliance, and further that operations of the source have not changed since the previous source test. [GEPA Permit GPA-680, Condition 16, September 10, 1997; GAPCSR, Section 1102.4]

II.D.7 For performance tests conducted as required by this permit, sampling traverse points are to be selected following Method 20 or Method 1 (non-particulate procedures) and sampled for equal time intervals. The sampling shall be performed with a traversing single-hole probe or, if feasible, with a stationary multi-hole probe that samples each of the points sequentially. Alternatively, a multi-hole probe designed and documented to sample equal volumes from each hole may be used to sample simultaneously at the required points. [40 CFR 60.335(a)(4)]

II.D.8 Notwithstanding Condition II.D.7 of this permit, the permittee may test at fewer points than are specified in Method 1 or Method 20 if the following conditions are met [40 CFR 60.335(a)(5)]:

II.D.8.a The permittee may perform a stratification test for NO_x and diluent pursuant to the procedures specified in Section 6.5.6.1(a) through (e) of Appendix A to 40 CFR 75.

II.D.8.b Once the stratification sampling is completed, the permittee may use the following alternative sample point selection criteria for the performance test:

II.D.8.b.1.a If each of the individual traverse point NO_x concentrations, normalized to 15 percent oxygen (O₂), is within ±10 percent of the mean normalized concentration for all traverse points, then the permittee may use three (3) points (located either 16.7, 50.0, and 83.3 percent of the way across the stack or duct, or, for circular stacks or ducts greater than 2.4 meters (7.8 feet) in diameter, at 0.4, 1.2, and 2.0 meters from the wall). The three (3) points shall be located along the measurement line that exhibited the highest average normalized NO_x concentration during the stratification test; or

II.D.8.b.1.b If each of the individual traverse point NO_x concentrations, normalized to 15 percent O₂, is within ±5 percent of the mean normalized concentration for all traverse points, then the permittee may sample at a single point, located at least 1 meter from the stack wall or at the stack centroid.

II.D.9 For purposes of complying with the New Source Performance Standards (NSPS) NO_x limit in Condition II.B.2 of this permit, the NO_x emission rate shall be computed for each run using the following equation. Notwithstanding this requirement, use of the International Organization for Standardization (ISO) correction equation is optional for: lean premix stationary combustion turbines; units used in association with heat recovery steam generators (HRSG) equipped with duct burners; and units equipped with add-on emission control devices. [40 CFR 60.335(b)(1)]:

$$\text{NO}_x = (\text{NO}_{x,o}) (P_r/P_o)^{0.5} e^{19(H_o - 0.00633)} (288^\circ\text{K}/T_a)^{1.53}$$

where:

NO_x = Emission rate of NO_x at 15 percent O₂ and ISO standard ambient conditions, ppm_{dv}

NO_{x,o} = Mean observed NO_x concentration, ppm_{dv}, at 15% O₂

P_r = Reference combustor inlet absolute pressure at 101.3 kilopascals ambient pressure, millimeters mercury (mm Hg)

P_o = Observed combustor inlet absolute pressure at test, mm Hg

H_o = Observed humidity of ambient air, grams (g) water (H₂O)/g air

e = Transcendental constant, 2.718

T_a = Ambient temperature, degrees Kelvin (K)

- II.D.10 Instead of using the equation listed in Condition II.D.9 of this permit, manufacturers may develop ambient condition correction factors to adjust the NO_x emission level measured by the performance test as provided in 40 CFR 60.8 to ISO standard day conditions. [40 CFR 60.335(a)(6) and 40 CFR 60.335(c)(1)]
- II.D.11 The permittee shall install, calibrate, maintain, and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water-to-fuel being fired in the combustion turbine (Unit CT-1). [40 CFR 60.334(a)]
- II.D.12 The 3-run performance test required by 40 CFR 60.8 must be performed within ± 5 percent at 30, 50, 75, and 90-to-100 percent of peak load or at four evenly-spaced load points in the normal operating range of the combustion turbine (Unit CT-1), including the minimum point in the operating range and 90-to-100 percent of peak load, or at the highest achievable load point if 90-to-100 percent of peak load cannot be physically achieved in practice. Notwithstanding these requirements, performance testing is not required for any emergency fuel, as defined in 40 CFR 60.331. [40 CFR 60.335(b)(2)]
- II.D.13 The continuous water-to-fuel ratio monitoring system must be operated concurrently with each USEPA Method 20 or American Society for Testing and Materials (ASTM) D6522-00 run and shall be used to determine the fuel consumption and the water-to-fuel ratio necessary to comply with the applicable NO_x emission limit. [40 CFR 60.335(b)(4)]
- II.D.14 The water-to-fuel ratio shall be monitored to establish acceptable values and ranges. The permittee may supplement the performance test data with engineering analyses, design specifications, manufacturer's recommendations, and other relevant information to define the acceptable parametric ranges more precisely. The permittee shall develop and keep on-site a parameter monitoring plan which explains the procedures used to document proper operation of the NO_x emission controls. The plan shall include the parameter(s) monitored and the acceptable range(s) of the parameter(s), as well as the basis for designating the parameter(s) and acceptable range(s). Any supplemental data such as engineering analyses, design specifications, manufacturer's recommendations, and other relevant information shall be included in the monitoring plan. [40 CFR 60.334(g)]
- II.D.15 The sulfur content of the No. 2 fuel oil to be used in the combustion turbine (Unit CT-1) shall be monitored using one of the total sulfur sampling options and the associated sampling frequency described in Sections 2.2.3, 2.2.4.1, 2.2.4.2, and

2.2.4.3 of Appendix D to 40 CFR 75 (i.e., flow proportional sampling, daily sampling, sampling from the unit's storage tank after each addition of fuel to the tank, or sampling each delivery prior to combining it with fuel oil already in the intended storage tank). [GEPA Permit GPA-680, Condition 11, September 10, 1997; 40 CFR 60.334(i)]

- II.D.16 If the option to sample each delivery of fuel oil has been selected, the permittee shall immediately switch to one of the other oil sampling options (i.e., daily sampling, flow proportional sampling, or sampling from the unit's storage tank) if the sulfur content of a delivery exceeds 0.8 weight percent. The permittee shall continue to use one of the other sampling options until all of the oil from the delivery has been combusted, and shall evaluate excess emissions according to Condition II.F.8.b.1 of this permit. When all of the fuel from the delivery has been burned, the permittee may resume using the as-delivered sampling option. [40 CFR 60.334(j)(2)(ii)]
- II.D.17 The permittee shall determine the fuel sulfur content of the fuel combusted in the combustion turbine (Unit CT-1) using a minimum of three samples collected during the performance test. The fuel samples shall be analyzed for the total sulfur content of the fuel using ASTM D129-00, D2622-98, D4294-02, D1266-98, D5453-00 or D1552-01 (all of which are incorporated by reference). [40 CFR 60.335(b)(10)]
- II.D.18 The fuel sulfur content analysis required by this permit may be performed by the permittee, a service contractor retained by the permittee, the fuel vendor, or any other qualified agency. [40 CFR 60.335(b)(11)]
- II.D.19 The permittee shall conduct weekly monitoring for opacity on the combustion turbine (Unit CT-1) following USEPA Method 22 in order to validate compliance with Condition II.B.1.b of this permit. If a visible emissions inspection conducted following USEPA Method 22 documents opacity, a USEPA Method 9 “Visible Emissions Evaluation” shall be completed within three (3) working days, or during the next scheduled operating period if the unit ceases firing on diesel fuel within the three working day time frame. [GAPCSR, Section 1104.12(7)]
- II.D.20 The permittee shall conduct periodic monitoring for opacity on the black start generator (Unit BSG-1) following USEPA Method 22 in order to validate compliance with Condition II.B.1.b of this permit. Visible emissions inspection is required every three months if this unit is operated more than 50 hours per quarter. If a visible emissions inspection conducted following USEPA Method 22 documents opacity, a USEPA Method 9 “Visible Emissions Evaluation” shall be completed within three (3) working days, or during the next scheduled operating period if the unit ceases firing on diesel fuel within the three working day time frame. [GAPCSR, Section 1104.12(7)]

II.E. Recordkeeping Requirements

- II.E.1 All records, including support information, shall be maintained for at least five (5) years following the date of such records compiled in a permanent form suitable for inspection and made available to GEPA or their representative upon request. [GAPCSR, Section 1104.12(7)(H)]
- II.E.2 A system shall be operated to continuously monitor and record the fuel consumption and the ratio of water-to-fuel being fired into the combustion turbine (Unit CT-1). These records shall be retained for five years and made available to GEPA. [GEPA Permit GPA-680, Condition 6, September 10, 1997; 40 CFR 60.7(c); 40 CFR 60.334(a); GAPCSR, Section 1104.12(7)(H)]
- II.E.3 The sulfur content of No. 2 fuel oil used in the diesel engine generator (Unit BSG-1) shall either be obtained from the fuel vendor or monitored pursuant to 40 CFR 60.334(b) using the method described in 40 CFR 60.335(d). [GAPCSR, Section 1103.10(a)]
- II.E.4 The permittee shall maintain a log of the date and nature of all inspections and maintenance activities performed at the facility [GAPCSR Section 1104.12(12)].

II.F. Reporting Requirements

- II.F.1 As required in Section II.L and in conjunction with the requirements of Section II.M of this permit the permittee shall report annually the total tons per year emitted of each regulated air pollutant, including hazardous air pollutants. The reporting of annual emissions is due within sixty (60) days following the end of the each calendar year. Upon the written request of the permittee, the deadline for reporting of annual emissions may be extended, if GEPA determines that reasonable justification exists for the extension. [GAPCSR, Section 1104.24(c)]
- II.F.2 The permittee shall report in writing within thirty (30) days the modification, relocation, discontinuance of operation or dismantlement of the emission units identified in Condition II.A.1 of this permit. [GAPCSR, Section 1104.5(a)]
- II.F.3 The permittee shall provide a report to GEPA of the results of all monitoring and recordkeeping required by this permit at least once every six (6) months, starting from the date of issuance of this permit. [GAPCSR, Section 1104.12(7)(I)]
- II.F.4 The permittee shall submit to GEPA monthly summary reports indicating the quantity of fuel combusted by the combustion turbine (Unit CT-1) in the subject month to verify the diesel fuel consumption. Compliance with the yearly maximum fuel consumption will be determined by a 12-month rolling average. A rolling average calculated monthly is actually a running total of fuel consumption over 12 consecutive months. This will be calculated by adding the total gallons of

fuel consumed in the subject month to the gallons consumed in the 11 months immediately preceding the subject month. The rolling average fuel consumption shall also be recorded and submitted with the monthly report. [GEPA Permit GPA-680, Condition 9, September 10, 1997]

II.F.5 The permittee shall submit monthly report for the combustion turbine (Unit CT-1) with the date and time of all instances when the water-to-fuel ratio falls below the minimum levels required in Condition II.C.3 of this permit. For these instances, the permittee shall report all information as specified in 40 CFR 60.7(c). For the purposes of this permit, all times when the water-to-fuel ratio falls below the values specified in this permit will be considered as times when the turbine is operating in violation of the permitted applicable emission limit for NO_x. [GEPA Permit GPA-680, Condition 13, September 10, 1997]

II.F.6 In the event of excess emission or malfunction of the combustion turbine (Unit CT-1), the permittee shall notify GEPA within twenty-four (24) hours by telephone of such events. These events shall be followed with a submission of a written notice to GEPA within two (2) weeks from the date of occurrence. [GEPA Permit GPA-680, Condition 14, September 10, 1997]

II.F.7 Any release of NO_x, SO₂, or PM₁₀ into the atmosphere above the acceptable emission limits of the combustion turbine (Unit CT-1) identified in Condition II.B.2 of this permit due to equipment breakdown or malfunction shall be immediately reported to the Administrator of GEPA. [GEPA Permit GPA-680, Condition 18, September 10, 1997]

II.F.8 The permittee shall submit reports for the combustion turbine (Unit CT-1) of excess emissions and monitor downtime, in accordance with 40 CFR 60.7(c). Excess emissions shall be reported for all periods of unit operation, including startup, shutdown, and malfunction. For the purpose of reports required for the combustion turbine (Unit CT-1) under 40 CFR 60.7(c), periods of excess emissions and monitor downtime that shall be reported are defined below. [40 CFR 60.334(j)]

II.F.8.a *Excess Emissions of Nitrogen Oxides*

II.F.8.a.1 An excess emission shall be any unit operating hour for which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the acceptable water-to-fuel ratio determined to demonstrate compliance with 40 CFR 60.332, as established during the performance test required in 40 CFR 60.8. Any unit operating hour in which no water is injected into the turbine shall be considered an excess emission.

[40 CFR 60.334(j)(1)(i)(A)]

II.F.8.a.2 A period of monitor downtime shall be any unit operating hour in which water is injected into the turbine, but the essential parametric data needed to determine the water-to-fuel ratio are unavailable or invalid.

[40 CFR 60.334(j)(1)(i)(B)]

II.F.8.a.3 Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions (temperature, pressure, and humidity), and gas turbine load. The permittee does not have to report ambient conditions if the permittee opts to use the worst case ISO correction factor as specified in 40 CFR 60.334(b)(3)(ii), or if the permittee is not using the ISO correction equation under the provisions of 40 CFR 60.335(b)(1).

[40 CFR 60.334(j)(1)(i)(C)]

II.F.8.b *Excess Emissions of Sulfur Dioxide*

II.F.8.b.1 For fuel oil samples obtained using daily sampling, flow proportional sampling, or sampling from the unit's storage tank, an excess emission occurs each unit operating hour included in the period beginning on the date and hour of any sample for which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 weight percent and ending on the date and hour that a subsequent sample is taken that demonstrates compliance with the sulfur limit.

[40 CFR 60.334(j)(2)(i)]

II.F.8.b.2 A period of monitor downtime begins when a required sample is not taken by its due date. A period of monitor downtime also begins on the date and hour of a required sample, if invalid results are obtained. The period of monitor downtime shall include only unit operating hours, and ends on the date and hour of the next valid sample. [40 CFR 60.334(j)(2)(iii)]

II.F.8.c *Excess Emissions during Periods of Ice Fog.* Each period during which an exemption provided in 40 CFR 60.332(f) is in effect shall be reported in writing to the Administrator quarterly. For each period the ambient conditions existing during the period, the date and time the air pollution control system was deactivated, and the date and time the air pollution control system was reactivated shall be reported. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter. [40 CFR 60.334(j)(3)]

II.F.8.d *Excess Emissions during Periods of Emergency Fuel Use.* Each period during which an exemption provided in 40 CFR 60.332(k) is in effect shall be included in the report required in 40 CFR 60.7(c). For each period, the type, reasons, and duration of the firing of the emergency fuel shall be reported. [40 CFR 60.334(j)(4)]

II.G. NSPS General Provisions

For the combustion turbine (Unit CT-1), the permittee shall comply with all applicable requirements in Subpart A of 40 CFR 60. [40 CFR 60, Subpart A].

II.H. Compliance Assurance Monitoring (CAM)

II.H.1 The permittee shall control NO_x emissions from the combustion turbine (Unit CT-1) using a water injection system operated in accordance of the requirements in Conditions II.D.11, II.D.13, and II.D.14. The water-to-fuel ratio of the water injection system shall be used as an indicator of the NO_x control efficiency for the combustion turbine (Unit CT-1). The water-to-fuel ratio shall be maintained at the level required in Condition II.C.3 of this permit. [40 CFR 64.2(a)]

II.H.2 The permittee shall conduct the monitoring required in Condition II.H.1 of this permit upon issuance of the permit. [40 CFR 64.7(a)]

II.H.3 At all times, the permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]

II.H.4 Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall conduct all water-to-fuel ratio monitoring on the combustion turbine (Unit CT-1) in continuous operation at all times that the unit is operating. Data recorded during monitoring malfunctions, associated reports, and required quality assurance or control activities shall not be used for the purposes of 40 CFR 64, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. [40 CFR 64.7(c)]

II.H.5 An excursion is defined to be a period when the water-to-fuel ratio falls below the required level in Condition II.C.3 of this permit for more than one hour. The continuous water-to-fuel ratio monitoring system is required to be accurate to within $\pm 5\%$. [40 CFR 64.1]

- II.H.6 Upon detecting an excursion or exceedance, the permittee shall restore operation of the pollutant-specific emission unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown, or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable. [40 CFR 64.7(d)(1)]
- II.H.7 Determination of whether the permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process. [40 CFR 64.7(d)(2)]
- II.H.8 Based on the results of a determination made under Condition II.H.7 of this permit, the Administrator of the USEPA or GEPA may require the permittee to develop and implement a quality improvement plan (QIP). The QIP threshold for the combustion turbine (Unit CT-1) shall be 10 excursions in a six-month reporting period. [40 CFR 64.8(a)]
- II.H.9 If required under Condition II.H.8 of this permit, the permittee shall maintain a written QIP and have it available for inspection. The plan shall initially include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the permittee shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:
- II.H.9.a Improved preventative maintenance procedures
 - II.H.9.b Process operation changes
 - II.H.9.c Appropriate improvements to control methods
 - II.H.9.d Other steps appropriate to correct control performance
 - II.H.9.e More frequent or improved monitoring, in conjunction with one or more of the preceding actions

[40 CFR 64.8(b)]

II.H.10 If a QIP is required under Condition II.H.8 of this permit, the permittee shall develop and implement a QIP as expeditiously as practicable and shall notify the GEPA if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined. [40 CFR 64.8(c)]

II.H.11 Following the implementation of a QIP, upon any subsequent determination pursuant to Condition II.H.7 of this permit the Administrator of the USEPA or GEPA may require that the permittee make reasonable changes to the QIP if the QIP is found to have:

II.H.11.a Failed to address the cause of the control device performance problems;
or

II.H.11.b Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

[40 CFR 64.8(d)]

II.H.12 Implementation of a QIP shall not excuse the permittee from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting, or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the CAA. [40 CFR 64.8(e)]

II.H.13 The permittee shall submit monitoring reports for the water injection system to GEPA in accordance with 40 CFR 70.6(a)(3)(iii). [40 CFR 64.9(a)(1)]

II.H.14 The monitoring reports required pursuant to Condition II.H.13 of this permit shall include, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the following information, as applicable:

II.H.14.a Summary information on the number, duration, and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

II.H.14.b Summary information on the number, duration, and cause (including unknown cause, if applicable) for monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

II.H.14.c A description of the actions taken to implement a QIP during the reporting period as specified in 40 CFR 64.8. Upon completion of a QIP, the permittee shall include in the next summary report

documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

[40 CFR 64.9(a)(2)]

II.H.15 The permittee shall comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written QIP requirements pursuant to 40 CFR 64.8 and any activities undertaken to implement a QIP, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring or records of monitoring maintenance or corrective actions). [40 CFR 64.9(b)(1)]

II.H.16 Instead of paper records, the permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 CFR 64.9(b)(2)]

II.I. Compliance Schedule

II.I.1 For applicable requirements with which the source is in compliance, the source will continue to comply with such requirements. [GAPCSR, Section 1104.8(b)(2)(A)]

II.I.2 For applicable requirements which become applicable during the permit term, the source shall meet such applicable requirements on a timely basis. [GAPCSR, Section 1104.8(b)(2)(B)]

II.J. Compliance Certifications

II.J.1 The compliance plan and compliance certification submittal requirements shall be in accordance with Sections 1104.8 and 1104.9 of the GAPCSR. The compliance certification shall be submitted to GEPA and the USEPA Regional Administrator once per year, or more frequently as set by any applicable requirement. [GAPCSR, Sections 1104.8 and 1104.9]

II.J.2 During the permit term, the permittee shall submit at least annually to GEPA, a compliance certification pursuant to Section 1104.9 of the GAPCSR. The permittee shall indicate whether or not compliance is being met with each term or condition of this permit. [GAPCSR, Section 1104.9]

II.K. General Air Quality Protections

II.K.1 The permittee shall not dispose of combustible material by open burning, or cause, suffer, allow, or permit open burning of combustible material within Guam, except as provided in Sections 1103.11 (b) through (e) of the GAPCSR. [GAPCSR, Section 1103.11; SIP, Section 6.1]

II.K.2 Control of Odors in Ambient Air

II.K.2.a The permittee shall not discharge or cause to be discharged into the atmosphere from any source whatsoever, such quantities of odorous emissions which is injurious to health, or is indecent or offensive to the senses, which affects at the same time an entire community or neighborhood, or any considerable number of persons, so as to unduly interfere with the comfortable enjoyment of life or property of such community, neighborhood or persons. It is a creation of a condition which causes injury to the public welfare. [GAPCSR, Section 1103.12(a); SIP, Section 11.1]

II.K.2.b An odor occurrence shall be deemed a violation when a complaint is received by the Administrator and the Administrator is able to detect the odor. This detection must be verified by the Department of Public Health, Environmental Health Section for a person to be found in violation of subsection (a) of this condition. [GAPCSR, Section 1103.12(b); SIP, Section 11.2]

II.K.2.c The odor of growing vegetation, and chemical fertilizers and insecticides when used properly, or when persons can demonstrate to the Administrator that the best practical operation or treatment is being implemented, shall not be considered objectionable for the purposes of this requirement. [GAPCSR, Section 1103.12(c); SIP, Section 11.3]

II.K.3 The permittee shall comply with the asbestos requirements of 40 CFR 61, Subpart M (as amended and incorporated in Section 1103.13 of the GAPCSR), including requirements for demolition and renovation projects. [GAPCSR, Section 1103.13]

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II.L. Annual Emissions Reporting Requirements

II.L.1 The reporting period for the annual emissions, including emissions from the emission units identified in Condition II.A.1 of this permit, shall be from January 1 to December 31 of each calendar year. All reports shall be submitted to GEPA along with the annual fee due. The report shall be mailed to [GAPCSR, Section 1104.24(c)]:

**Administrator
Guam Environmental Protection Agency
Air and Land Division
Air Pollution Control Program
P.O. Box 22439 GMF
Barrigada, Guam 96921**

All applicable correspondences and records with this permit submitted to GEPA shall have duplicate copies forwarded to:

**Director, Air Division (Attn: AIR-5)
U.S. Environmental Protection Agency
75 Hawthorne Street
San Francisco, CA 94105**

II.L.2 The permittee shall retain the information submitted, including all emissions calculations. These records shall be in a permanent form suitable for inspection, retained for a minimum of five (5) years, and made available to GEPA upon request. [GAPCSR, Section 1104.12(7)(H)]

II.L.3 Any information submitted to GEPA without a request for confidentiality shall be considered public record. [GAPCSR, Section 1102.7]

II.L.4 The permittee may request confidential treatment of specific information by submitting a written request to the Administrator identifying the specific information that is to be accorded confidential treatment. [GAPCSR, Section 1102.7(b)]

II.M. Fee Payment

II.M.1 The permittee shall submit fees in accordance with GAPCSR, Sections 1104.21 through 1104.24. [GAPCSR, Section 1104.12(9)(K)]

II.M.2 The permittee shall complete and submit the Annual Fee Calculation Worksheet, including all emissions calculations, with the required annual fee. The permittee shall make copies for future use. [GAPCSR, Section 1104.24(l)]

II.M.3 Annual fees shall be paid in full: [GAPCSR, Section 1104.24(a)]

II.M.3.a Within sixty (60) days after the end of each calendar year;

II.M.3.b Within thirty (30) days after permanent discontinuance of the air emission source.

II.M.4 The permittee shall be assessed a Six Dollars (\$6.00) per ton per pollutant base rate of the total annual emission. However, the minimum annual fee due shall be Five Hundred Dollars (\$500.00) for each valid permit held during the prior calendar year; or Forty-Two Dollars (\$42.00) per month for any fraction of the year the permit is valid after the last calendar year for which annual fee was paid. [GAPCSR, Section 1104.24(g)]

II.M.5 If any part of the annual fee is not paid within thirty (30) days after the due date, a late penalty of five percent (5%) of the amount due shall at once accrue and be added thereto. Thereafter, on the first day of each calendar month during which part of the annual fee or any prior accrued late payment penalty remains unpaid, an additional late payment penalty of five percent (5%) of the then unpaid balance shall accrue and be added thereto. [GAPCSR, Section 1104.25(b)]

II.M.6 If any annual fee, including the late payment penalty required by the GAPCSR is not paid in full within thirty (30) days after the due date, the Administrator may terminate or suspend any or all of the owner or operator's air pollution control permit, after affording the opportunity for a hearing in accordance with Section 1104.19 or Section 1102.14 of the GAPCSR. [GAPCSR, Section 1104.25(c)]

II.M.7 The annual emissions data for which the annual fees are based shall accompany the submittal of any annual fees and submitted on forms furnished by GEPA. [GAPCSR, Section 1104.24(c)]

II.M.8 Check payments shall be made payable to the Treasurer of Guam along with a notation that the funds be deposited into GEPA's Air Pollution Control Special Fund. [GAPCSR, Section 1104.21(d)]

II.M.9 The annual fees and emissions data shall be mailed to [GAPCSR, Section 1104.24]:

**Administrator
Guam Environmental Protection Agency
Air and Land Division
Air Pollution Control Program
P.O. Box 22439 GMF
Barrigada, Guam 96921**

Guam EPA

Title V Federal Operating Permit

Guam Power Authority – Macheche

Permit No. FO-004

Expires: **Insert Date**

All applicable correspondences and records with this permit submitted to GEPA shall have duplicate copies forwarded to:

Director, Air Division (Attn: AIR-5)
U.S. Environmental Protection Agency
75 Hawthorne Street
San Francisco, CA 94105

Guam EPA
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Guam Power Authority – Macheche
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III. Title V Administrative Requirements

III.A. Blanket Compliance Statement

The permittee shall comply with all the terms and conditions of this permit. Any permit noncompliance constitutes a violation of the GAPCSR and, for all federally enforceable terms and conditions, the CAA, and is grounds for enforcement action, permit termination, suspension, reopening, or amendment, or for denial of a permit renewal application. Permit noncompliance shall be subject to the penalties and remedies provided for in Section 49116 of Chapter 49, Part 2, Division 2, Part 1 of Title 10 of the GCA. [GAPCSR, Section 1104.12(9)(A) and 1102.12; SIP, Section 4.4]

III.B. Duty to Provide and Supplement Information

The permittee shall furnish, in a timely manner, any information or record requested in writing by GEPA to determine whether cause exists for terminating, suspending, reopening, or amending the permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to GEPA copies of records required to be kept by the permit. For information claimed confidential, the permittee shall furnish such records to GEPA with a claim of confidentiality. [GAPCSR, Section 1104.12(9)(H)]

III.C. Submissions

Any document (including reports, compliance plans and compliance certifications) required to be submitted by this permit shall be certified by a responsible official. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete in accordance with 1102.3 and shall be mailed or forwarded to the following address [GAPCSR, Sections 1102.3 and 1104.12(9)(L)]:

**Administrator
Guam Environmental Protection Agency
Air and Land Division
Air Pollution Control Program
P.O. Box 22439 GMF
Barrigada, Guam 96921**

All applicable correspondences and records with this permit submitted to GEPA shall have duplicate copies forwarded to:

**Director, Air Division (Attn: AIR-5)
U.S. Environmental Protection Agency
75 Hawthorne Street
San Francisco, CA 94105**

III.D. Severability Clause

If any term or condition of this permit becomes invalid as a result of a challenge to a portion of this permit, the other terms and conditions of this permit shall not be affected and remain valid. [GAPCSR, Section 1104.12(9)(B)]

III.E. Circumvention

The permittee shall not cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes an emission of air contaminant which would otherwise violate these regulations. This provision does not prohibit recycling, burning as fuel or otherwise further processing material which would violate an emission regulation if released to the atmosphere, so long as the facility in which that material is used does not violate applicable emission regulations. [SIP, Section 17.2]

III.F. Permit Actions

This permit will be revoked if the Agency finds willful or continued violations of the standards and regulations. [GAPCSR, Sections 1104.12(9)(A), 1104.18(a)(4), and 1104.18(b)(3); SIP, Section 3.7(c)]

III.G. Reopening for Cause

This permit may be terminated, suspended, reopened, or amended for cause pursuant to Section 1104.18 of the GAPCSR, after affording the permittee an opportunity for a hearing in accordance with Section 1102.14 or 10 GCA 49111. [GAPCSR, Section 1104.12(9)(D)]

III.H. Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege. [GAPCSR, Section 1104.12(9)(E)]

III.I. Inspection and Entry

III.I.1 The permittee shall allow GEPA, the Regional Administrator for the USEPA, and/or an authorized representative, upon presentation of credentials or other documents required by law:

III.I.1.a To enter the premises where a source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit and inspect at reasonable times all facilities, equipment, practices, operations, or records covered under the terms and conditions of the permit and request copies of records or copy records required by the permit; and

III.I.1.b To sample or monitor at reasonable times substances or parameters to assure compliance with the permit or applicable requirements. [GAPCSR, Section 1104.12(9)(M)]

III.J. Emergency Provisions

III.J.1 In addition to any emergency or upset provision contained in any applicable requirement, the permittee may seek to establish that noncompliance with a technology-based emission limitation under this permit was due to an emergency. To do so, the permittee shall demonstrate to the Administrator the affirmative defense of emergency through properly signed, contemporaneous operating logs, or other relevant evidence that:

III.J.1.a An emergency occurred and the permittee can identify the cause(s) of the emergency;

III.J.1.b The permitted facility was at the time being properly operated;

III.J.1.c During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission limitations or other requirements in this permit; and

III.J.1.d The permittee submitted notice of the emergency to the Administrator within two (2) working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. This notice fulfills the prompt reporting of deviations pursuant to Section 1102.9 of the GAPCSR. [GAPCSR, Sections 1104.17(a) and 1104.1(c)]

III.J.1.e In any enforcement proceeding the permittee attempting to establish the occurrence of an emergency has the burden of proof. [GAPCSR, Section 1104.17(b)]

III.K. Transfer of Ownership or Operation

III.K.1 This permit is not transferable, whether by operation of law or otherwise, either from one location to another or from one piece of equipment to another. [GAPCSR, Section 1104.4(c); SIP Section 3.8]

III.K.2 This permit shall not be transferable, whether by operation of law or otherwise, from person to person without the approval of the Administrator. [GAPCSR, Section 1104.4(d); SIP Section 3.8]

III.K.3 In the event of any changes in control or ownership of facilities to be operated or modified, the resulting modification of this permit shall be made as an administrative amendment pursuant to Section 1104.20 of the GAPCSR. [GAPCSR, Section 1104.20]

III.L. Permit Expiration and Renewal

- III.L.1 This permit is issued for a fixed term of five years from the date of issuance. [GAPCSR, Section 1104.11; SIP Section 3.1(b)(4)]
- III.L.2 Application for permit renewal shall be submitted no more than eighteen (18) months prior to the date of permit expiration. Application for permit renewal shall be submitted no later than six (6) months prior to the date of permit expiration. Late applications shall be subject to penalties pursuant to Section 1104.25 of the GAPCSR. [GAPCSR, Section 1104.6(d); SIP Section 3.1(b)(4)]
- III.L.3 This permit shall remain valid past the expiration date and the air pollution emission source shall not be in violation for failing to have an air pollution control permit, until the Administrator has issued or denied the renewal of the air pollution control permit, provided [GAPCSR, Section 1104.2(d)]:
- III.L.3.a A complete renewal application has been submitted and the owner or operator acts consistently with the permit previously granted, and the application on which it was based, and all plans, specifications, and other information submitted as part of the application; and
- III.L.3.b The owner or operator has submitted to the Administrator within the specified deadlines, all requested additional information deemed necessary to evaluate or take final action on the renewal application as described in Section 1104.6 of the GAPCSR.

III.M. Permit Modifications

Applications for modification of this permit are subject to the same requirements as the initial application including all requirements pursuant to Section 1104.6(c) of the GAPCSR. The permittee shall submit a description of the modification, identifying all proposed changes, including any changes to the source operations, work practices, equipment design, source emissions, or any monitoring, record keeping, and reporting procedures. Each change from the permit application for this permit shall be identified on the application for the permit modification. [GAPCSR, Section 1104.6(f)]

III.N. Malfunction

- III.N.1 Except for emergencies which result in noncompliance with any technology-based emission limitation in accordance with Section 1104.17 of the GAPCSR, in the event any emission unit, air pollution control equipment, or related equipment breaks down in such a manner as to cause the emission of air pollutants in violation of the GAPCSR, or this permit, the permittee shall immediately notify, within twenty-four (24) hours, GEPA of the failure or breakdown, unless the protection of personnel or public health or safety demands immediate attention to

the failure or breakdown and makes such notification infeasible. In the latter case, the notice shall be provided as soon as practicable. The submittal of these notices shall not be a defense to an enforcement action. Within five (5) working days of this initial notification, the permittee shall also submit, in writing, the following information:

III.N.1.a Identification of emission points;

III.N.1.b Magnitude of the excess emissions;

III.N.1.c Time and duration of the excess emissions;

III.N.1.d Identity of the process or control equipment causing the excess emissions;

III.N.1.e Cause and nature of the excess emissions;

III.N.1.f Description of the steps taken to remedy the situation, prevent a recurrence, limit the excessive emissions, and assure that the breakdown does not interfere with the attainment and maintenance of the National Ambient Air Quality Standards (NAAQS) and Guam ambient air quality standards;

III.N.1.g Documentation that the equipment or process was at all times maintained and operated in a manner consistent with good practice for minimizing emissions; and

III.N.1.h A statement that the excess emissions are not part of a recurring pattern indicative of inadequate design, operation, or maintenance. [GAPCSR, Section 1102.9]

III.O. Agency Notifications

III.O.1 The permittee shall notify the Administrator in writing of the following dates:

III.O.1.a The anticipated date of initial start-up for each emission unit of a new source or significant modification not more than sixty (60) days or less than thirty (30) days prior to such date.

III.O.1.b The actual date of construction commencement within fifteen (15) days after such date.

III.O.1.c The actual date of start-up within fifteen (15) days after such date. [GAPCSR, Section 1104.12(9)(G)]

III.O.2 The permittee shall notify GEPA in writing, of the intent to shut down air pollution control equipment for necessary scheduled maintenance at least twenty-four (24) hours prior to the planned shutdown. The submittal of this notice shall not be a defense to an enforcement action. The notice shall include the following:

III.O.2.a Identification of the specific equipment to be taken out of service, as well as its location and permit number;

III.O.2.b The expected length of time that the air pollution control equipment will be out of service;

III.O.2.c The nature and quantity of emissions of air pollutants likely to be emitted during the shutdown period;

III.O.2.d Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; and

III.O.2.e The reasons why it would be impossible or impractical to shut down the source operation during the maintenance period. [GAPCSR, Section 1102.8; SIP, Section 4.3]

III.O.3 A copy of applicable correspondence or records submitted to GEPA shall be provided to the USEPA pursuant to Section 1104.15 of the GAPCSR. [GAPCSR, Section 1104.12(9)(I)]

III.O.4 Within thirty (30) days of permanent discontinuance of the operation, modification, relocation, or construction of any of the above units, the responsible official shall report the discontinuance in writing to the Administrator. [GAPCSR, Section 1104.5(a)]

III.P. Miscellaneous Conditions

III.P.1 Unless specifically identified, the terms and conditions contained in this permit are consistent with the applicable requirement on which each term or condition is based. [Section 49107(7)(c)(2) of Chapter 49, Part 2, Division 2, Part 1 of Title 10 of the GCA]

III.P.2 This permit, or a copy thereof, shall be maintained at or near the source for which this permit was issued and shall be made available for inspection upon request. [GAPCSR, Section 1104.4(a); SIP, Section 3.12]

III.P.3 This permit shall not be willfully defaced, altered, forged, counterfeited, or falsified. [GAPCSR, Section 1104.4(b); SIP, Section 3.13]

- III.P.4 The facility covered by this permit shall be constructed and operated in accordance with the application, and any information submitted as part of the application, for this permit. There shall be no deviation from this permit condition unless additional or revised plans are submitted to and approved by GEPA, and the permit is amended to allow for such deviation. [GAPCSR, Section 1104.12(12)]
- III.P.5 This permit (a) does not release the permittee from compliance with other applicable statutes of Guam, or with applicable local or federal laws, regulations, or ordinances, and (b) shall not constitute, nor be construed to be an approval of the design of the source. [GAPCSR, Sections 1104.2(e) and 1104.12(11)]
- III.P.6 The permittee shall not use as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the terms and conditions of this permit. [GAPCSR, Section 1104.12(9)(C)]
- III.P.7 The filing of a request by the permittee for a permit termination, suspension, reopening, or amendment, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [GAPCSR, Section 1104.12(9)(D)]
- III.P.8 This permit shall become invalid with respect to any authorized construction if construction is not commenced as follows:
- III.P.8.a Within thirty (30) days of permanent discontinuance of the construction, modification, relocation or operation of any permitted air pollution emission source, the responsible official shall report the discontinuance in writing to the Administrator.
- III.P.8.b For phased construction projects, each phase shall commence construction within eighteen (18) months of the projected and approved commencement dates in the permit. [GAPCSR, Sections 1104.5(b), 1104.5(c), and 1104.12(9)(F)]
- III.P.9 GEPA may extend the time periods specified in Condition III.P.8 of this permit upon a satisfactory showing that an extension is justified. Request for an extension shall be submitted in writing to GEPA. [GAPCSR, Section 1104.5(d)]
- III.P.10 The permittee may request confidential treatment of any records in accordance with Section 1102.7 of the GAPCSR. [GAPCSR, Section 1104.12(9)(J)]
- III.P.11 The terms and conditions included in this permit, including any provision designed to limit a source's potential to emit, are federally enforceable unless

Guam EPA

Title V Federal Operating Permit

Guam Power Authority – Macheche

Permit No. FO-004

Expires: **Insert Date**

such terms, conditions, or requirements are specifically designated as not federally enforceable. [GAPCSR, Section 1104.14]